

National 4 Homework 10

All questions are non-calculator. Show all your working.

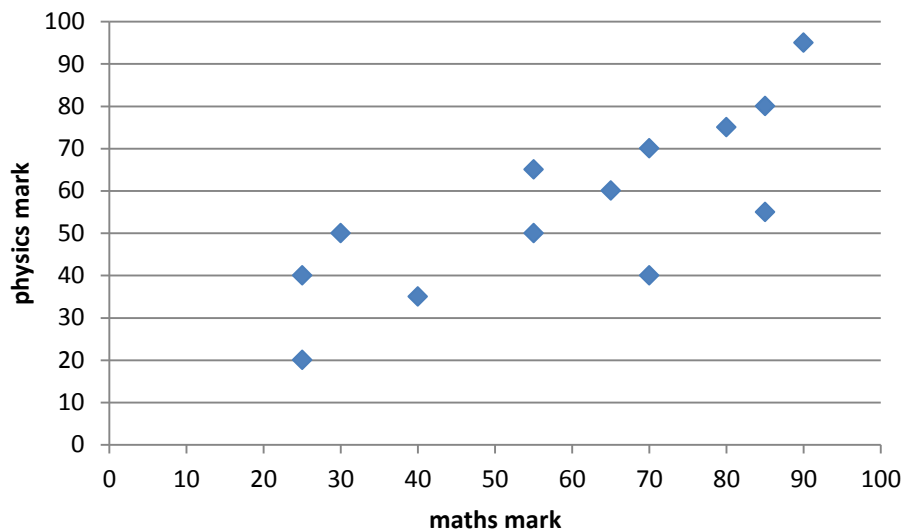
1. Calculate

- (a) 75% of £640 (b) 6.57×9 (c) $\frac{5}{8}$ of 3200 (d) $-4 \times (5 - 8)$

2. In an hour, a café sold 20 bowls of soup. 5 were tomato, 7 were parsnip and the rest were lentil.
What is the probability that the next person to buy a bowl of soup will choose lentil?
Give your answer as a fraction in its simplest form.



3. The scattergraph shows the maths and physics marks scored by a group of pupils.



- (a) Laura scored 80% in her maths test. What did she score in physics?
- (b) How many pupils scored more than 60% in maths?
- (c) Sean scored exactly the same in both physics and maths. What was his score?
4. Mr and Mrs Martin ran the Edinburgh marathon last year.
They both set off at 1235. Mrs Martin ran the race in 3 hours 47 minutes.
Mr Martin crossed the finish line 39 minutes after his wife.
At what time did Mr Martin finish the marathon?



5. Milk is sold in different sized cartons.



2 litres - £1.36

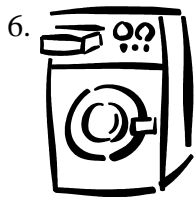


1 litre - 75p



1.5 litres - 99p

Which is best value?



6. Two shops are selling the same washing machine for exactly the same price. The first shop requires a deposit of £100 followed by 12 payments of £60. The second shop asks for a £50 deposit followed by 10 equal payments.
- How much is each payment in the second shop?

7. The table shows the number of right handed and left handed girls and boys in a primary school.

	Left-handed	Right-handed
Girls	10	80
Boys	15	95

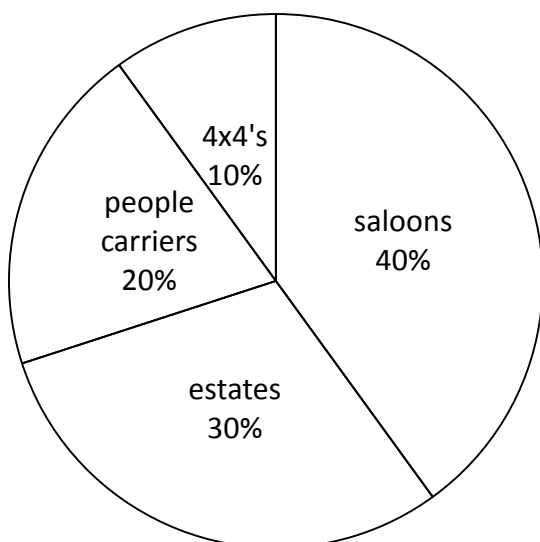
- (a) How many pupils are in the school?
- (b) If a pupil is chosen at random, what is the probability that the pupil is
- A left-handed girl
 - A right-handed boy?
 - A boy
 - Right-handed?

8. Emma is booking tickets for the cinema.

Ticket prices	Saver (Mon-Thurs before 5pm)	Peak (Mon-Thurs after 5pm, All day Fri Sat and Sun)
Child	£5.90	£7.00
Student	£6.60	£7.30
Senior	£6.20	£7.85
Adult	£8.10	£9.60
Family (2 adults+2 children or 1 adult+3children)	£23.60	£28.00
Premier Seat	Add £2.10 to each ticket / £8.40 to each family ticket	

She is taking her son and his 3 friends who are all age 7 to a film for his birthday. She books standard seats for a film at 2pm on Wednesday . She also books 2 premier seat tickets for herself and her husband for the 8pm show on Saturday. Calculate the cheapest total cost of her tickets.

9.



The pie chart shows the type of cars sold by a garage last year.

There were 134 people carriers sold.

- (a) How many cars did the garage sell in total?
- (b) How many estates did the garage sell?